

Results of contactless and non-invasive analysis: overview

Project: Digitization / Cataloguing of non-textual objects:
Description and Digitization of Precious Book Covers as Independent Works of Art.
Project-Period: 01.10.2014 - 30.09.2017

Shelfmark: Munich, Bayerische Staatsbibliothek, Cod.tibet. 491

Analytical methods: X-Ray Fluorescence Spectroscopy (XRF): p. 2-6
Fourier Transform Infrared Spectroscopy (FTIR): p. 7-14

Contact: Institute of Conservation and Restoration (IBR)
of the Bayerische Staatsbibliothek, Munich

XRF-Analysis: Mapping of measurement points and spectra

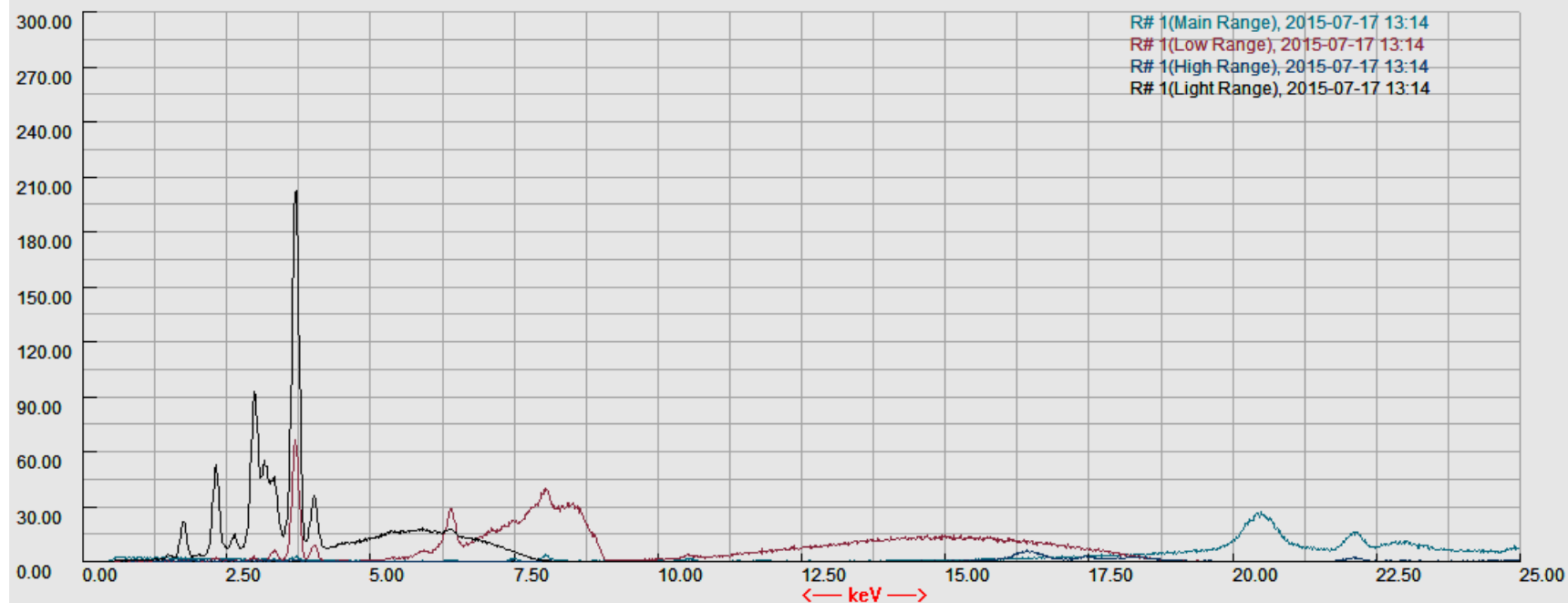
Scanning parameters

Instrument: NITON XL3t GOLD D+
Scanning mode: Mining (Cu, Zn)
Spectral resolution: 4 cm^{-1}
Scan duration: 150 s

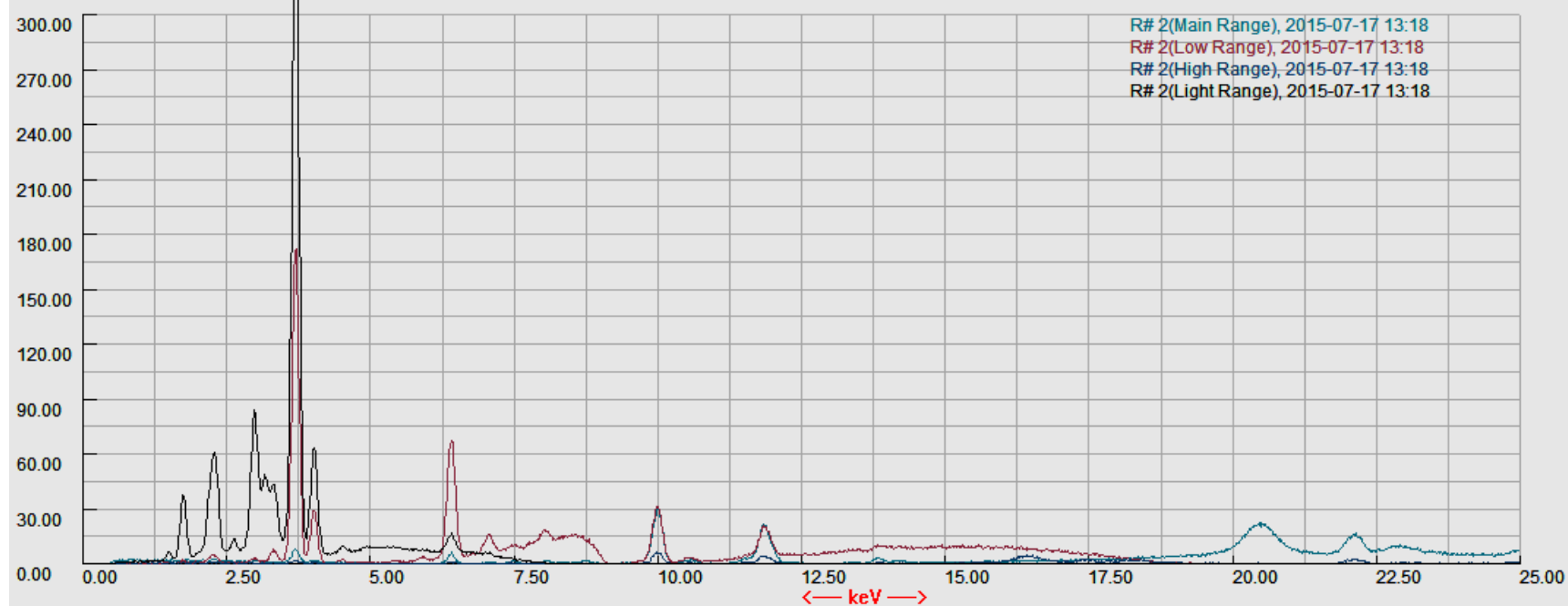
Spectra: #1 ... #8

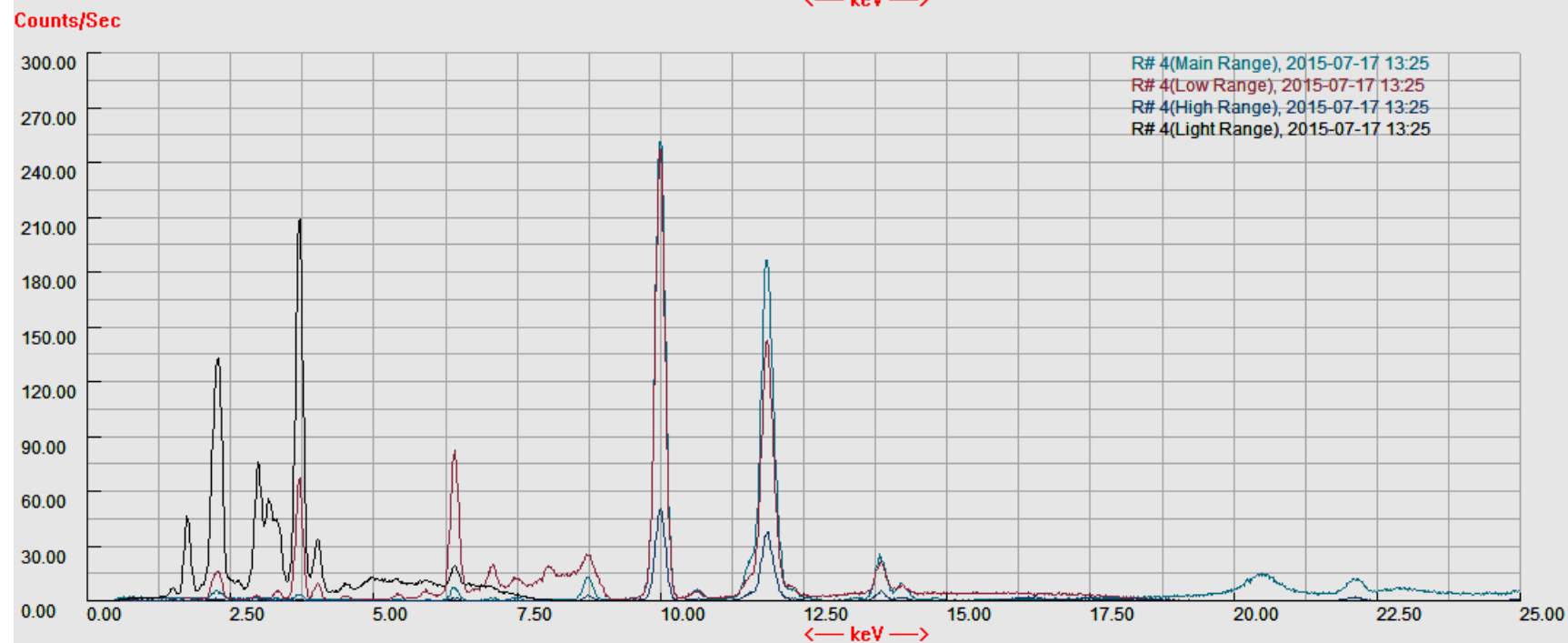
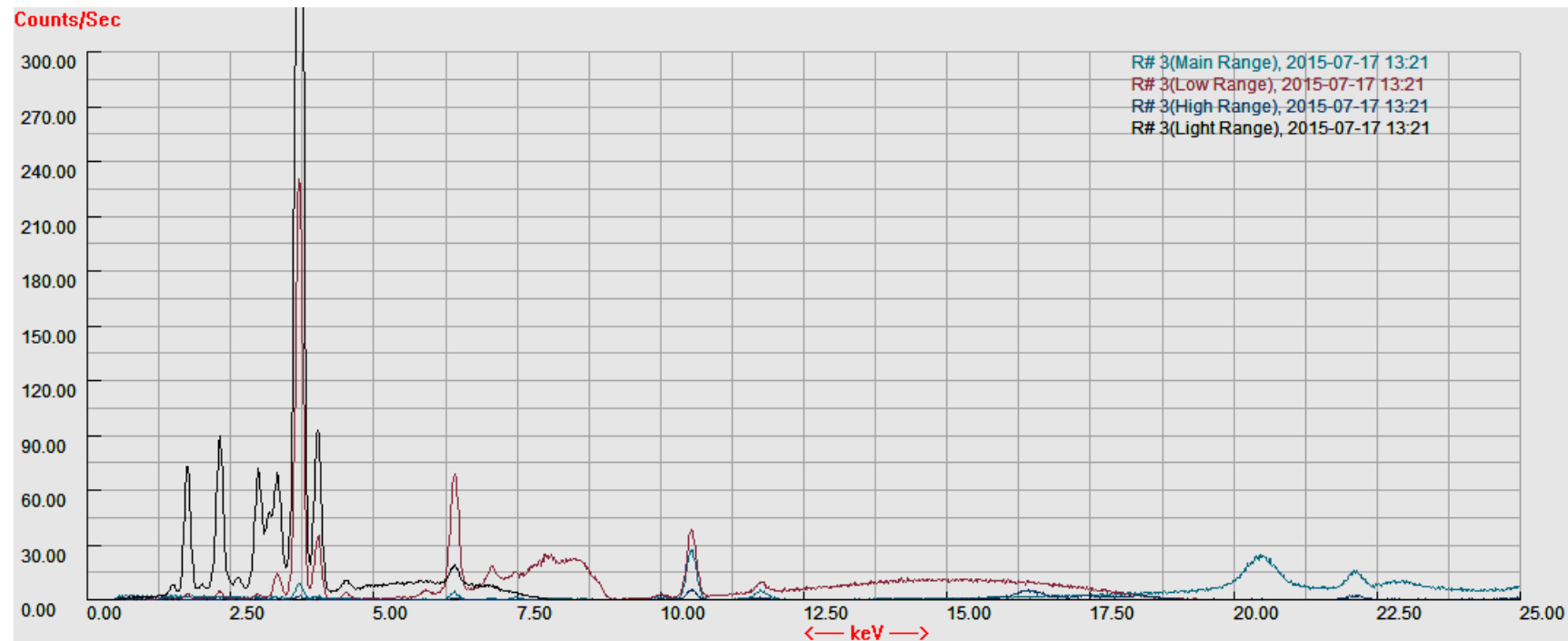


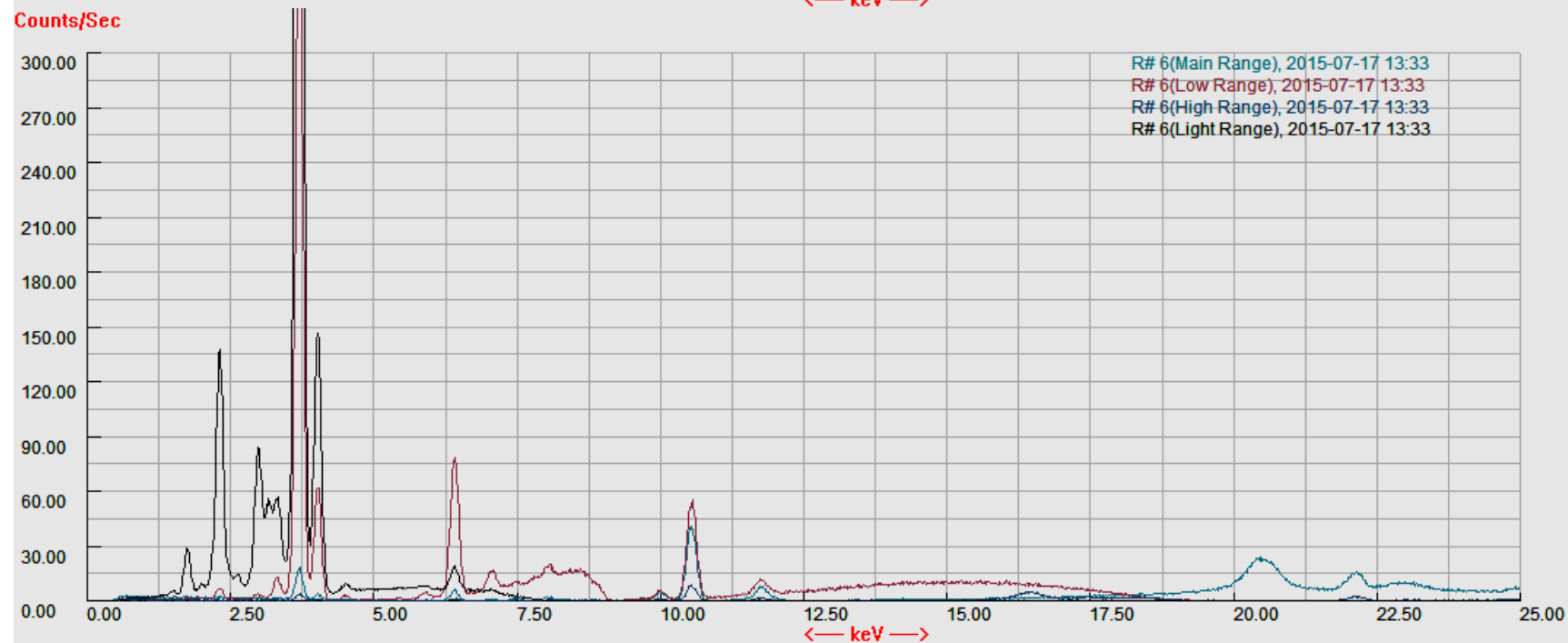
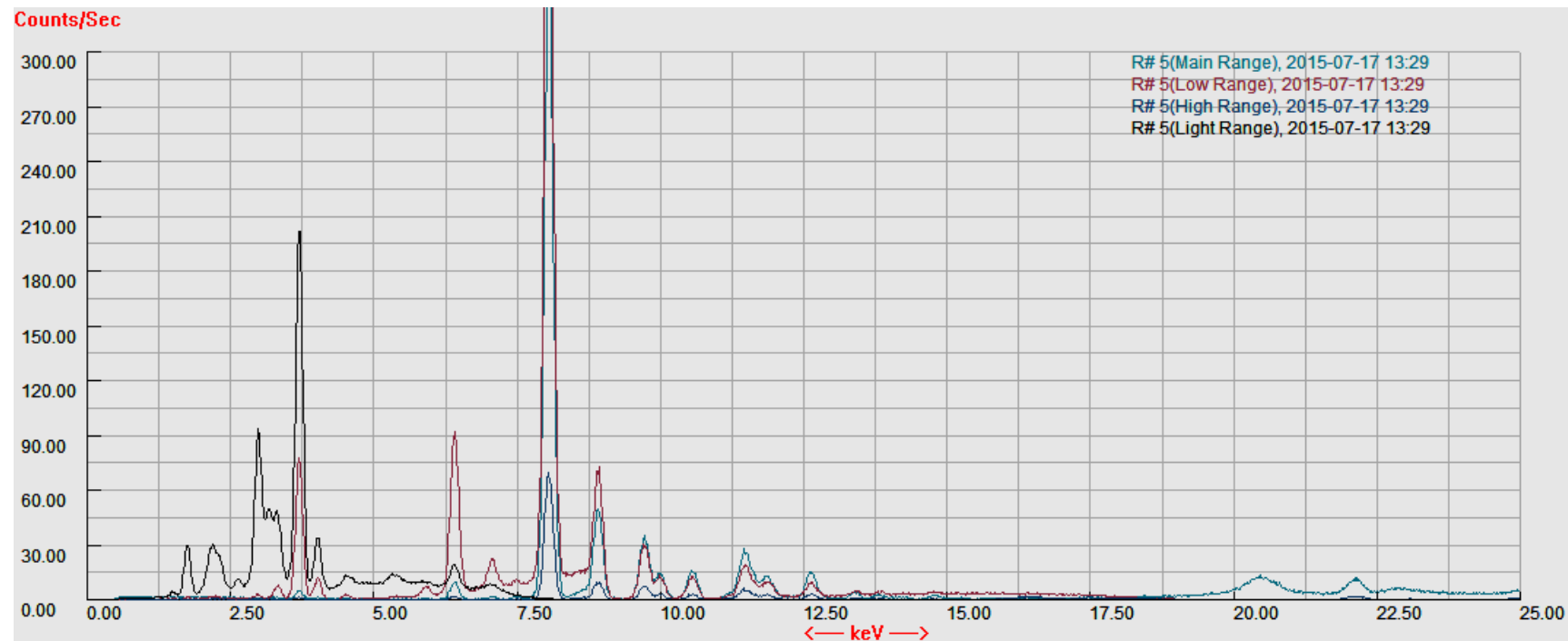
Counts/Sec

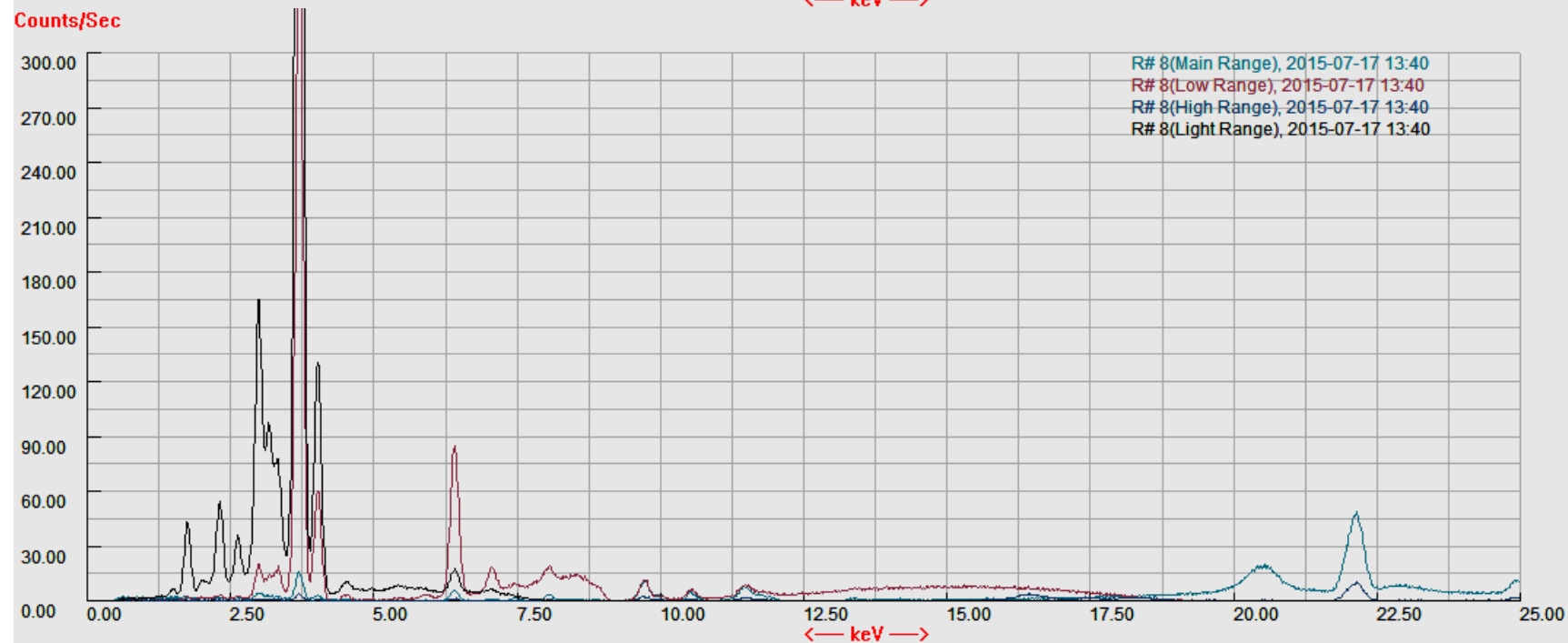
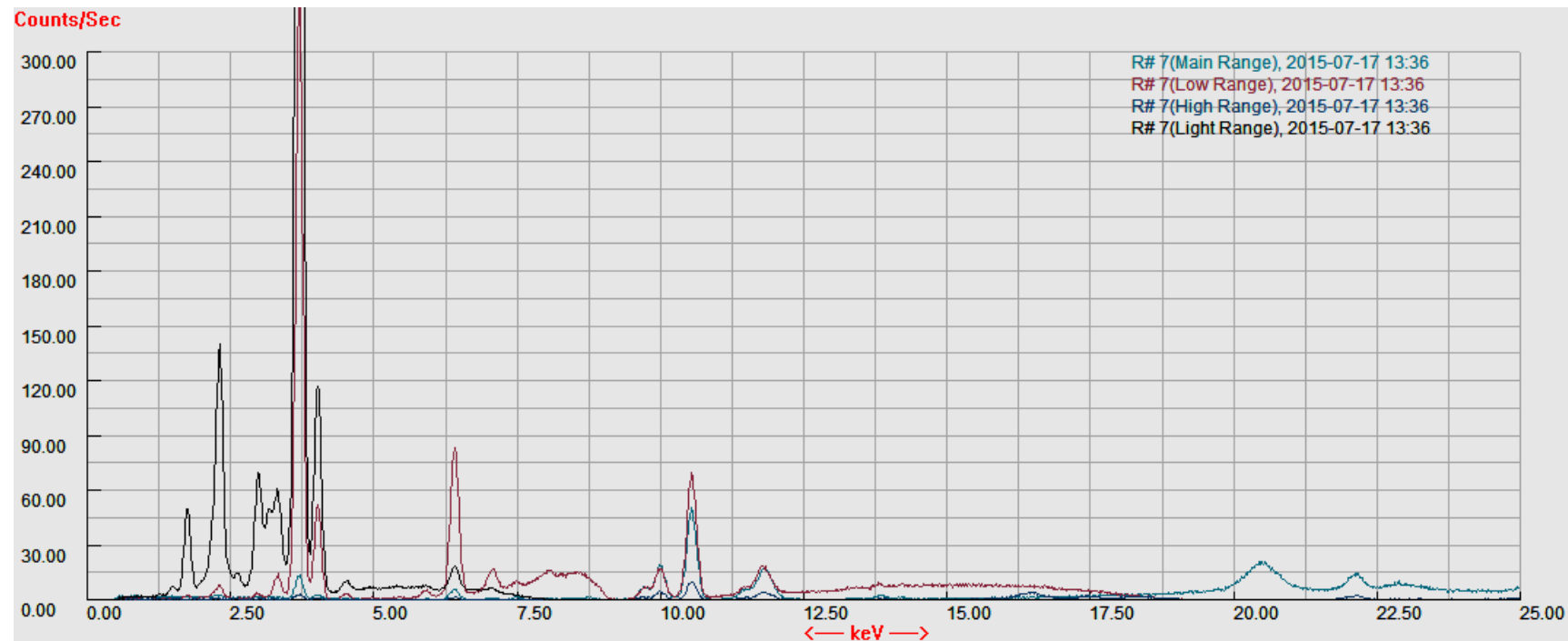


Counts/Sec









FTIR-Analysis: Mapping of measurement points and spectra

Scanning parameters

Instrument: BRUKER ALPHA
Scanning mode: FTIR external reflection mode
Spectral resolution: 4 cm^{-1}
Spectral range: $360\text{-}5400\text{ cm}^{-1}$
Scan duration: 240 scans

Spectra: tibet_491_1b_1a ... _1n
(filename description: signature_side a/b_number of scan)



